Learning to Fly: The Wright Brother's Adventure							
2006 Science Content and Achievement Standards							
Activity/Lesson	State	Standards					
Activity/Lesson	State	Standards					
			Select alternative methods of scientific				
			investigations (e.g., library, internet, field				
The Society	ND	SCI.6.6.2.2	work) to address different kinds of questions.				
The Coolety		00	Identify various settings in which scientists				
			may work alone or in a team (e.g., industries,				
The Society	ND	SCI.6.6.8.1	laboratories, field work)				
	1.12		Design a product or solution to a problem				
Wright Brothers:			given constraints (e.g., limits of time, costs,				
1900 Glider	ND	SCI.6.6.6.2	materials and environmental factors)				
			Identify various settings in which scientists				
Wright Brothers:			may work alone or in a team (e.g., industries,				
1900 Glider	ND	SCI.6.6.8.1	laboratories, field work)				
			Design a product or solution to a problem				
Wright Brothers:			given constraints (e.g., limits of time, costs,				
1901 Glider	ND	SCI.6.6.6.2	materials and environmental factors)				
			Identify various settings in which scientists				
Wright Brothers:			may work alone or in a team (e.g., industries,				
1901 Glider	ND	SCI.6.6.8.1	laboratories, field work)				
			Design a product or solution to a problem				
Wright Brothers:			given constraints (e.g., limits of time, costs,				
1902 Glider	ND	SCI.6.6.6.2	materials and environmental factors)				
			Identify various settings in which scientists				
Wright Brothers:			may work alone or in a team (e.g., industries,				
1902 Glider	ND	SCI.6.6.8.1	laboratories, field work)				
			Design a product or solution to a problem				
Wright Brothers:			given constraints (e.g., limits of time, costs,				
1903 Flyer	ND	SCI.6.6.6.2	materials and environmental factors)				
			Identify various settings in which scientists				
Wright Brothers:			may work alone or in a team (e.g., industries,				
1903 Flyer	ND	SCI.6.6.8.1	laboratories, field work)				
		2010054	Identify adverse weather conditions and how				
Meet the Wrights	ND	SCI.6.6.5.1	humans prepare for them				
			Identify various settings in which scientists				
NA of the NA/violeta	ND	0010004	may work alone or in a team (e.g., industries,				
Meet the Wrights	ND	SCI.6.6.8.1	laboratories, field work)				
			Design a product or solution to a problem given constraints (e.g., limits of time, costs,				
1000 Kitty Havelea	ND	2016663	, ,				
1900: Kitty Hawks	ND	SCI.6.6.6.2	materials and environmental factors) Identify various settings in which scientists				
			may work alone or in a team (e.g., industries,				
1900: Kitty Hawks	ND	SCI.6.6.8.1	laboratories, field work)				
1300. Kitty Hawks	IND	301.0.0.0.1	Identify various settings in which scientists				
1901: The First			may work alone or in a team (e.g., industries,				
Improvement	ND	SCI.6.6.8.1	laboratories, field work)				
muhiovement	שווו	JC1.0.0.0.1	iaboratorico, riciu work)				

			Explain the components of a scientific
			investigation (e.g., hypothesis, observation,
			data collection, data interpretation,
New Data	ND	SCI.6.6.2.1	communication of results, replicable)
			Identify adverse weather conditions and how
New Data	ND	SCI.6.6.5.1	humans prepare for them
			Design a product or solution to a problem
1902: Success at			given constraints (e.g., limits of time, costs,
Last	ND	SCI.6.6.6.2	materials and environmental factors)
			Design a product or solution to a problem
1903: Powered			given constraints (e.g., limits of time, costs,
Flight	ND	SCI.6.6.6.2	materials and environmental factors)
			Explain the components of a scientific
			investigation (e.g., hypothesis, observation,
1904: Improvement			data collection, data interpretation,
in Dayton	ND	SCI.6.6.2.1	communication of results, replicable)
1904: Improvement			
in Dayton	ND	SCI.6.6.3.2	Use simple machines to change forces
			Design a product or solution to a problem
1905: Complete a			given constraints (e.g., limits of time, costs,
Flight at Last	ND	SCI.6.6.6.2	materials and environmental factors)
			Identify various settings in which scientists
1905: Complete a			may work alone or in a team (e.g., industries,
Flight at Last	ND	SCI.6.6.8.1	laboratories, field work)
	Learning to F		Brother's Adventure
		2006 Science	
North Dakata Caiar		and Achieveme	ent Standards
North Dakota Scier Grade 7			
Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	Communicate the results of scientific
			investigations using an appropriate format
Wright Brothers:			(e.g., journals, lab reports, diagrams,
1900 Glider	ND	SCI.7.7.2.1	presentations, discussions)
1000 Glidel	IND	001.7.7.2.1	Communicate the results of scientific
			investigations using an appropriate format
Wright Brothers:			(e.g., journals, lab reports, diagrams,
1901 Glider	ND	SCI.7.7.2.1	presentations, discussions)
	1		Communicate the results of scientific
			investigations using an appropriate format
Wright Brothers:			(e.g., journals, lab reports, diagrams,
1902 Glider	ND	SCI.7.7.2.1	presentations, discussions)
			Communicate the results of scientific
			investigations using an appropriate format
Wright Brothers:			(e.g., journals, lab reports, diagrams,
1903 Flyer	i .	I	1, 9,
1903 FIVE	ND	SCI.7.7.2.1	presentations, discussions)
1903 Fiyei	ND	SCI.7.7.2.1	presentations, discussions) Communicate the results of scientific
1903 Fiyei	ND	SCI.7.7.2.1	Communicate the results of scientific
1903 Flyei	ND	SCI.7.7.2.1	

			Communicate the results of scientific			
			investigations using an appropriate format			
			(e.g., journals, lab reports, diagrams,			
1900: Kitty Hawks	ND	SCI.7.7.2.1	presentations, discussions)			
			Explain how models can be used to illustrate			
1901: The First			scientific principles (e.g., osmosis, cell			
Improvement	ND	SCI.7.7.1.1	division)			
•			Explain how models can be used to illustrate			
1902: Success at			scientific principles (e.g., osmosis, cell			
Last	ND	SCI.7.7.1.1	division)			
			Explain how models can be used to illustrate			
1903: Powered			scientific principles (e.g., osmosis, cell			
Flight	ND	SCI.7.7.1.1	division)			
			Communicate the results of scientific			
			investigations using an appropriate format			
1904: Improvement			(e.g., journals, lab reports, diagrams,			
in Dayton	ND	SCI.7.7.2.1	presentations, discussions)			
		71 14 1 1 5				
	Learning to Fig	y: The Wright B 2006 Science	rother's Adventure			
	Contont	and Achieveme				
North Dakota Scien		and Acmeveme	sit Standards			
Grade 8						
Activity/Lesson	State	Standards				
1901: The First			Use evidence to generate descriptions,			
Improvement	ND	SCI.8.8.2.2	explanations, predictions, and models			
1901: The First			Design and conduct a scientific investigation (e.g., making systematic observations, making accurate measurements, identifying			
Improvement	ND	SCI.8.8.2.4	and controlling variables)			
			Interpret the effect of balanced and			
			unbalanced forces on the motion of an object			
1901: The First			(e.g., convection currents, orbital motion,			
Improvement	ND	SCI.8.8.3.3	tides)			
			Explain how factors (i.e., fronts, winds, air			
1901: The First			masses, air pressure, humidity, temperature,			
Improvement	ND	SCI.8.8.5.1	location) affect weather			
			Explain how factors (i.e., fronts, winds, air			
New Data	ND	CCI 0 0 E 1	masses, air pressure, humidity, temperature, location) affect weather			
1902: Success at	טאו	SCI.8.8.5.1	Use evidence to generate descriptions,			
Last	ND	SCI.8.8.2.2	explanations, predictions, and models			
1903: Powered	140	301.0.0.2.2	Use evidence to generate descriptions,			
Flight	ND	SCI.8.8.2.2	explanations, predictions, and models			
·ə		0.10.0.2.2	Explain how factors (i.e., fronts, winds, air			
1904: Improvement			masses, air pressure, humidity, temperature,			
in Dayton	ND	SCI.8.8.5.1	location) affect weather			
-9			,			
	Learning to Fl	y: The Wright B	rother's Adventure			
2006 Science Content and Achievement Standards						
		2006 Science	e			

North Dakota Scie	ence		
Grades 9-10			
Activity/Lesson	State	Standards	
		SCI.9-10.9-	Identify questions and concepts that guide
The Society	ND	10.2.3	scientific investigations
			Identify the role of scientists in theoretical
		SCI.9-10.9-	and applied science (e.g., careers,
The Society	ND	10.8.1	employment possibilities)
			Identify the human characteristics that
			influence scientific advancement (e.g.,
			intellectual honesty, openness, objectivity,
		SCI.9-10.9-	curiosity, skepticism, ethical conduct,
The Society	ND	10.8.2	cooperation)
			Explain how individuals and groups, from
			different disciplines in and outside of
		SCI.9-10.9-	science, contribute to science at different
The Society	ND	10.8.3	levels of complexity
			Identify the role of scientists in theoretical
Wright Brothers:		SCI.9-10.9-	and applied science (e.g., careers,
1900 Glider	ND	10.8.1	employment possibilities)
1901: The First		SCI.9-10.9-	Explain how models can be used to illustrate
Improvement	ND	10.1.1	scientific principles
			Identify the independent and dependent
1901: The First		SCI.9-10.9-	variables, the control, and the constants
Improvement	ND	10.2.5	when conducting an experiment
1903: Powered		SCI.9-10.9-	Analyze data found in tables, charts, and
Flight	ND	10.2.8	graphs to formulate conclusions